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APPLICANT : NIPPON HOSO KYOKAI <NHK>;

INVENTOR : MURAKAMI YUKIO;

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TITLE : VACUUM ULTRAVIOLET-EXCITED LIGHT-EMITTING ELEMENT

ABSTRACT : PURPOSE: To reduce aged deterioration of a light-emitting element in luminosity and in color so as to enhance its life by using in the light-emitting element a barium-magnesium-aluminate phosphor represented by a specific formula.

CONSTITUTION: A barium-magnesium-aluminate phosphor represented by the composition formula $Ba_{1-x}Ew_xMgAl_{10}O_{17}$ is employed in a light-emitting element. In the formula, (x) is 0.05 to 0.5. The barium-magnesium-aluminate phosphor, which is a blue-light-emitting phosphor for use in a full-color plasma display panel, greatly varies in its life characteristic depending on its composition, and aged deterioration of luminosity and changes in color with time are reduced by use of the composition represented by the formula.

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